

WHAT IS CLAIMED IS:

1. A planar fluorescent lamp, comprising of:  
a first panel, having a first fluorescent layer thereon;  
a second panel, having a second fluorescent layer thereon;  
5 a glass rim, joined with edges of the first and second panels, wherein the glass rim has a plurality of electrode seats, and;  
two electrode structures, each having an electrode and two electrode leads at two sides of the electrode, wherein each electrode lead has a neck region.

10 2. The planar fluorescent lamp according to claim 1, wherein the electrode includes a planar structure.

3. The planar fluorescent lamp according to claim 1, wherein the electrode leads include flat panels.

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4. A planar fluorescent lamp, comprising of:  
a first panel, having a first fluorescent layer thereon;  
a second panel, having a second fluorescent layer thereon;  
a glass rim joined with edges of the first and second panels, wherein the glass  
20 rim has a plurality of electrode seats, and;  
two electrode structures, each having an electrode and two electrode leads at two sides of the electrode, wherein each electrode includes a bent serration structure.

5. The planar fluorescent lamp according to claim 4, wherein the electrode lead has a neck region.

6. The planar fluorescent lamp according to claim 4, wherein the electrode leads  
5 include a flat panel.

7. The planar fluorescent lamp according to claim 1, wherein the glass rim further comprising a gap for installing a venting tube.

10 8. A planar fluorescent lamp, comprising of:  
a first panel, having a first fluorescent layer thereon;  
a second panel, having a second fluorescent layer thereon;  
a glass rim joined with edges of the first and second panels, wherein the glass rim has a plurality of recesses, and;  
15 a first rod electrode structure and a second circular structures, wherein the first and second rod electrode structures are parallel to each other and closely attached to the glass rim via the recesses.

9. The planar fluorescent lamp according to claim 8, wherein each of the first  
20 and second rod electrode structures includes an electrode and two electrode leads at two sides of the electrode.

10. The planar fluorescent lamp according to claim 8, wherein the each of the first and second electrode structures includes an electrode and an electrode lead at one side of the electrode.

5           11. The planar fluorescent lamp according to claim 8, wherein the first and second rod electrode structures include a circular material, which includes further an electrode material.

10           12. The planar fluorescent lamp according to claim 8, wherein the first and second rod electrode structures include a circular material, which includes further an electrode material thereon.

13. The planar fluorescent lamp according to claim 8, wherein the recesses have V-shaped cross sections.

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14. The planar fluorescent lamp according to claim 8, wherein the recesses have U-shaped cross sections.

15. The planar fluorescent lamp according to claim 8, wherein the recesses have  
20 rectangular shaped cross sections.

16. The planar fluorescent lamp according to claim 8, wherein the glass rim further comprises a gap therein for installing a venting tube.